

Title (en)

SYSTEM AND METHOD FOR IONIZATION OF MOLECULES FOR MASS SPECTROMETRY AND ION MOBILITY SPECTROMETRY

Title (de)

SYSTEM UND VERFAHREN ZUR IONISATION VON MOLEKÜLEN FÜR DIE MASSENSPEKTROMETRIE UND IONENMOBILITÄTSSPEKTROMETRIE

Title (fr)

SYSTÈME ET PROCÉDÉ POUR IONISER DES MOLÉCULES POUR UNE SPECTROMÉTRIE DE MASSE ET UNE SPECTROMÉTRIE DE MOBILITÉ IONIQUE

Publication

**EP 2612345 B1 20200408 (EN)**

Application

**EP 11822641 A 20110901**

Priority

- US 201161493400 P 20110603
- US 37947510 P 20100902
- US 201161446187 P 20110224
- US 39124810 P 20101008
- US 2011050150 W 20110901

Abstract (en)

[origin: WO2012031082A2] An ionizing system includes a channel having an inlet disposed in a first pressure region and an outlet disposed in a second pressure region, a pressure of the first pressure region being greater than a pressure of the second pressure region. A heater is coupled to the channel and configured to heat the channel. A device is configured to introduce an analyte into the channel where the analyte is ionized.

IPC 8 full level

**H01J 49/04** (2006.01); **H01J 49/10** (2006.01)

CPC (source: EP US)

**H01J 49/0404** (2013.01 - EP US); **H01J 49/0468** (2013.01 - EP US); **H01J 49/10** (2013.01 - EP US)

Citation (examination)

- VINCENT S. PAGNOTTI ET AL: "Solvent Assisted Inlet Ionization: An Ultrasensitive New Liquid Introduction Ionization Method for Mass Spectrometry", ANALYTICAL CHEMISTRY, vol. 83, no. 11, 29 April 2011 (2011-04-29), US, pages 3981 - 3985, XP055414638, ISSN: 0003-2700, DOI: 10.1021/ac200556z
- PAGE J S ET AL: "Biases in Ion Transmission Through an Electrospray Ionization-Mass Spectrometry Capillary Inlet", JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, ELSEVIER SCIENCE INC, US, vol. 20, no. 12, 1 December 2009 (2009-12-01), pages 2265 - 2272, XP026766409, ISSN: 1044-0305, [retrieved on 20090902], DOI: 10.1016/J.JASMS.2009.08.018
- TANG K ET AL: "Charge competition and the linear dynamic range of detection in electrospray ionization mass spectrometry", JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, ELSEVIER SCIENCE INC, US, vol. 15, no. 10, 1 October 2004 (2004-10-01), pages 1416 - 1423, XP004588886, ISSN: 1044-0305, DOI: 10.1016/J.JASMS.2004.04.034

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